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THE UNITED STATES PATENT AND TRADEMARK OFFICE  
**INFORMATION DISCLOSURE STATEMENT**

APPLICANT: Serdan Ozen et al. ATTORNEY DOCKET NO.: 7240 (P03,0369)

SERIAL NO.: 10/729,722

CONFIRMATION NO.: 2630

FILING DATE: December 5, 2003

GROUP ART UNIT: 2614

INVENTION: "EFFICIENT CONJUGATE GRADIENT BASED CHANNEL  
ESTIMATOR"

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SIR:

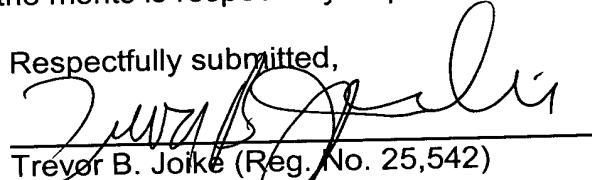
The patents and/or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 CFR § § 1.56, 1.97, and 1.98. As of the date of mailing this Information Disclosure Statement, a first Office Action on the merits has not been received in connection with this application, and therefore, this Information Disclosure Statement is in compliance with 37 C.F.R. §1.97(b)(3), and no fee is necessary. The undersigned counsel certifies, moreover, that each item contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement, as required by 37 C.F.R. §1.97(e). In the event that this Information Disclosure Statement crosses in the mail with a first Office Action, therefore, this Information Disclosure Statement satisfies 37 C.F.R. (c)(1), and still no fee is necessary. Copies of the publications noted on the Form-1449 are enclosed herewith. In accordance with 37 C.F.R. 1.98(a), no copy of the

U.S. patent document is being supplied herewith. Also, enclosed is a copy of the International Search Report.

The Commissioner is hereby authorized to charge any additional fees that may be required, or to credit any overpayment, to account No. 260175. A duplicate of this sheet is enclosed.

An early and favorable action on the merits is respectfully requested.

Respectfully submitted,



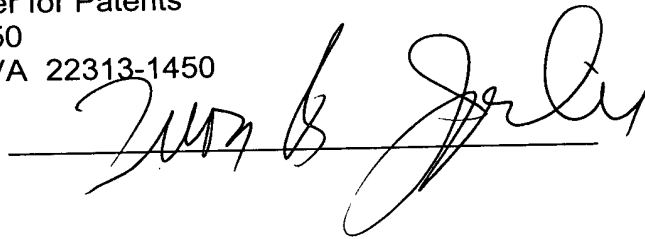
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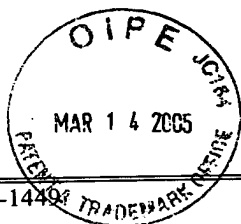
#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to:

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on March 9, 2005.





Sheet 1 of 1

Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (use several sheets if necessary)					Docket No. P03,0369		Serial No. 10/729,722	
					Serdan Ozen et al.			
					Filing Date December 5, 2003		Group Art Unit 2614	
<b>U.S. PATENT DOCUMENTS</b>								
Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If appropriate	
	AA	6,647,078 B1	11/11/03	Thomas et al.				
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
<b>FOREIGN PATENT DOCUMENTS</b>								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AJ	WO 03/036891 A2	05/01/03	PCT				
	AK							
	AL							
	AM							
	AN							
	AO							
	AP							
<b>OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	AR	T. Sarkar et al., "Accurate and Efficient Solution of Hankel Matrix Systems by FFT and the Conjugate Gradient Methods", Intl. Conference on Acoustics, Speech & Signal Processing, April 6-9, 1987, 4 pgs. (XP-000758077)						
	AS	R. Soni et al., "Channel Equalization with Adaptive Filtering and the Pre-conditioned Conjugate Gradient Algorithm", 1997 IEEE Intl. Symposium on Circuits and Systems, June 9-12, 1997, Hong Kong, pgs. 2284-2287.						
	AT	M.D. Zoltowski et al., "Conjugate Gradient Based Multichannel Decision Feedback Equalization for Digital Television", 2002 IEEE Sensor Array and Multichannel Signal Processing Workshop Proceedings, Aug. 4, 2002, pgs. 599-603.						
	AU							
	AV							
	AW							
	AX							
Examiner				Date Considered				
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								